

SYSTEMS FOR PREDICTION, RAPID DETECTION, WARNING, PREVENTION OR CONTROL OF CHANGES IN ACTIVITY STATES IN THE BRAIN

Patent number: EP0898460

Publication date: 1999-03-03

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Classification:

- **international:** A61B5/048; A61N1/08; A61N1/36; A61B5/0476; A61N1/08; A61N1/36; (IPC1-7): A61B5/048

- **European:** A61B5/048; A61N1/08; A61N1/36

Application number: EP19970904841 19970121

Priority number(s): WO1997US01037 19970121; US19960010477P 19960123; US19970778771 19970106

Also published as:

WO9726823 (A1)
US5995868 (A1)
EP0898460 (A4)

Cited documents:

US4753246
EP0598478
US4031883
XP000091897

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Abstract not available for EP0898460

Abstract of correspondent: **US5995868**

A system (10) analyzes signals representative of a subject's brain activity in a signal processor (12) for information indicating the subject's current activity state and for predicting a change in the activity state. One preferred embodiment uses a combination of nonlinear filtering methods to perform real-time analysis of the electro-encephalogram (EEG) or electro-corticogram (ECoG) signals from a subject patient for information indicative of or predictive of a seizure, and to complete the needed analysis at least before clinical seizure onset. The preferred system then performs an output task for prevention or abatement of the seizure, or for recording pertinent data.

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